

Fig. 1A

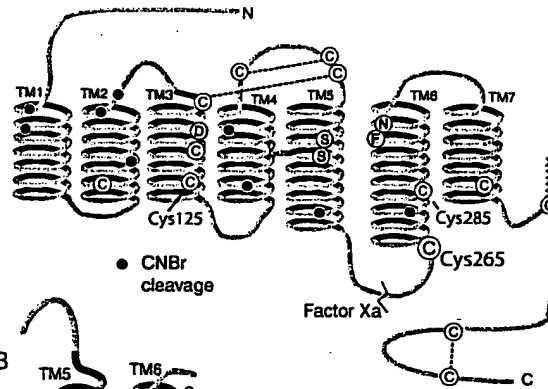
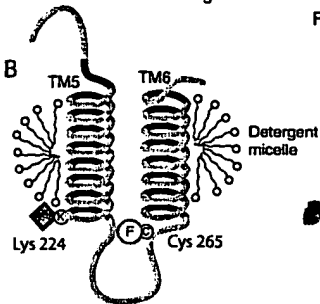


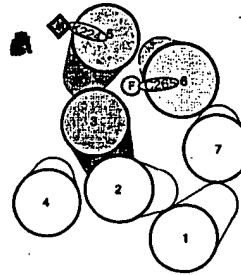
Fig. 1 B



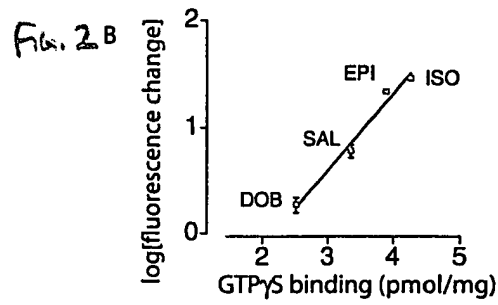
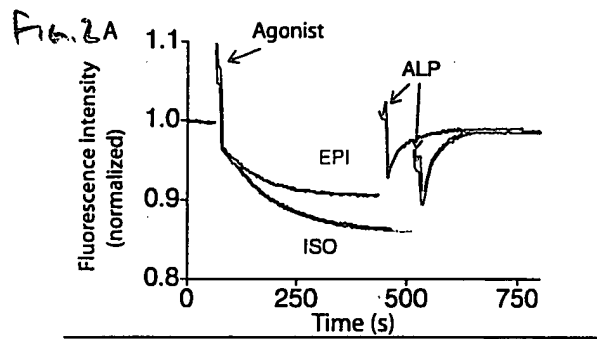
(F) FLUORESCCEIN
MALEIMIDE

◆ OXYL-NHS
(quencher)

Fig. 1C



101700" 19050600



0935061 082404

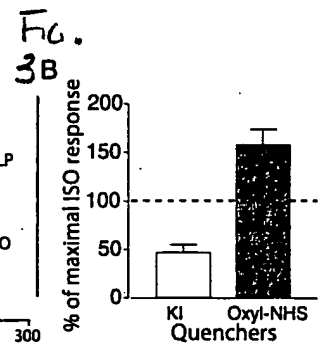
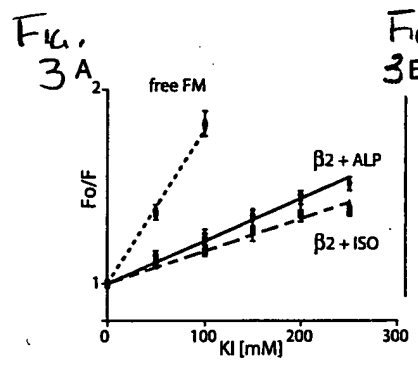


Fig. 4 A

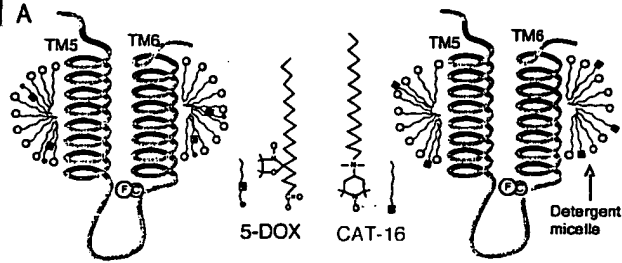


Fig. 4 B

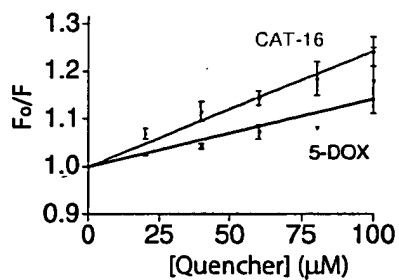


Fig. 4 C

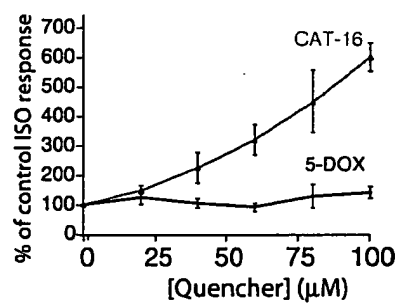
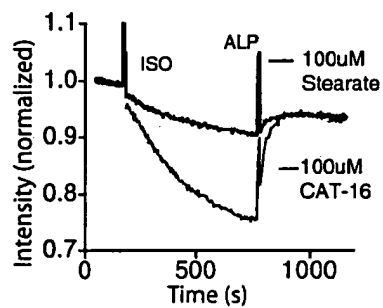


Fig. 4 D



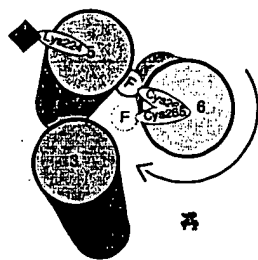


FIG. 5A

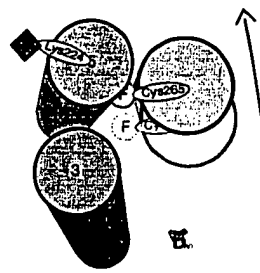


FIG. 5B

FOI280" T905E660

Fig. 6 A

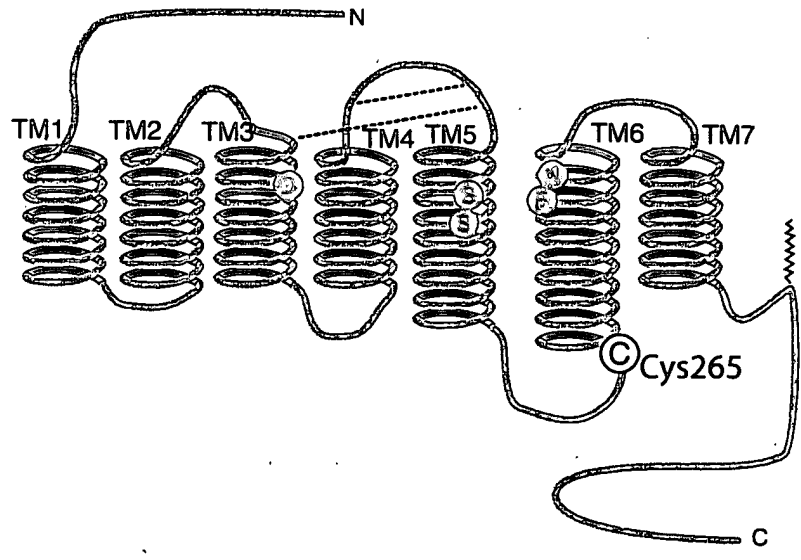
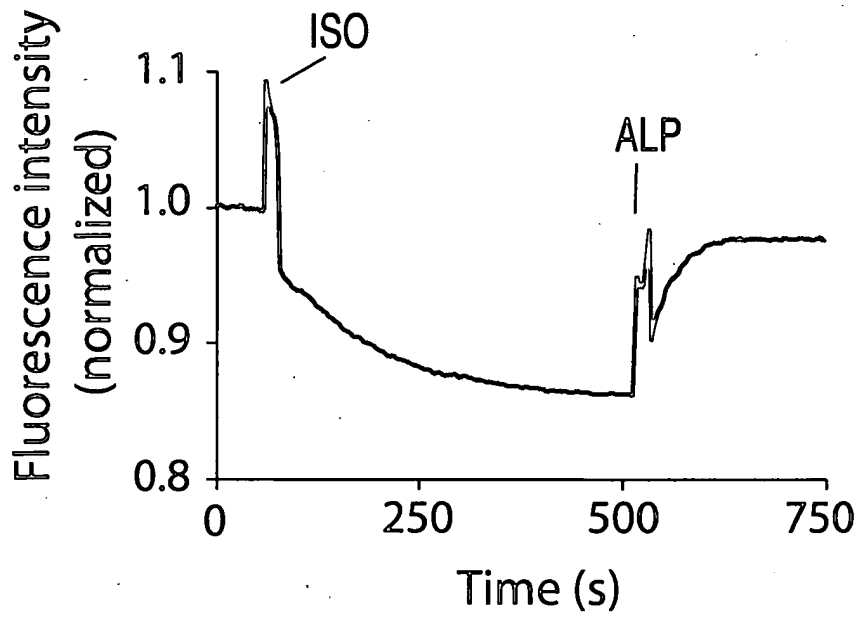
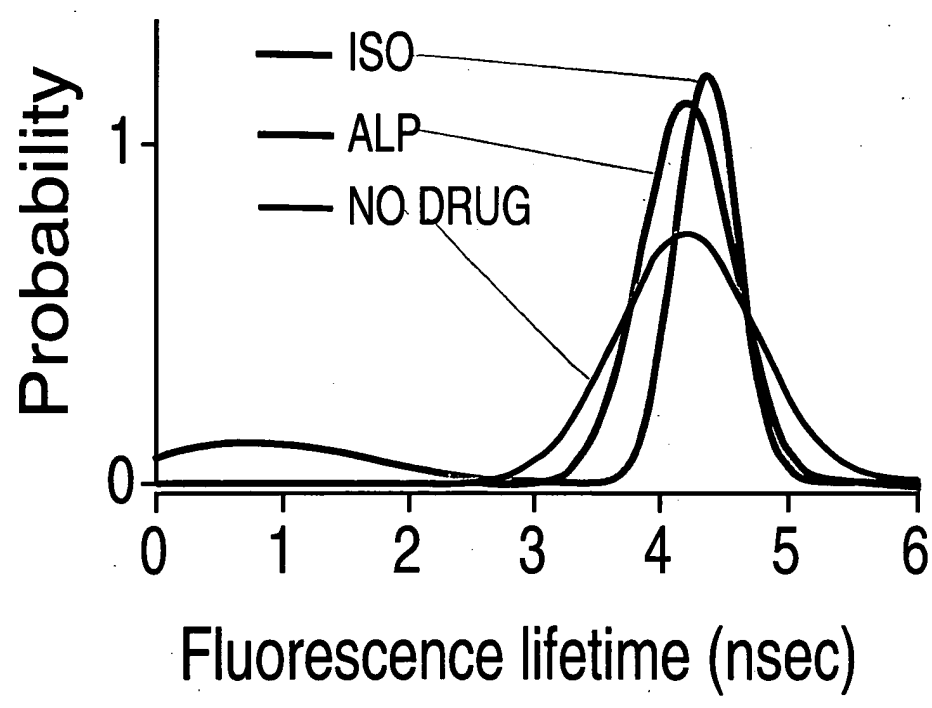


Fig. 6 B



09935061.092101
101280" 1905660

Figure 7



FOI230" 19052660

Figure 8A-B

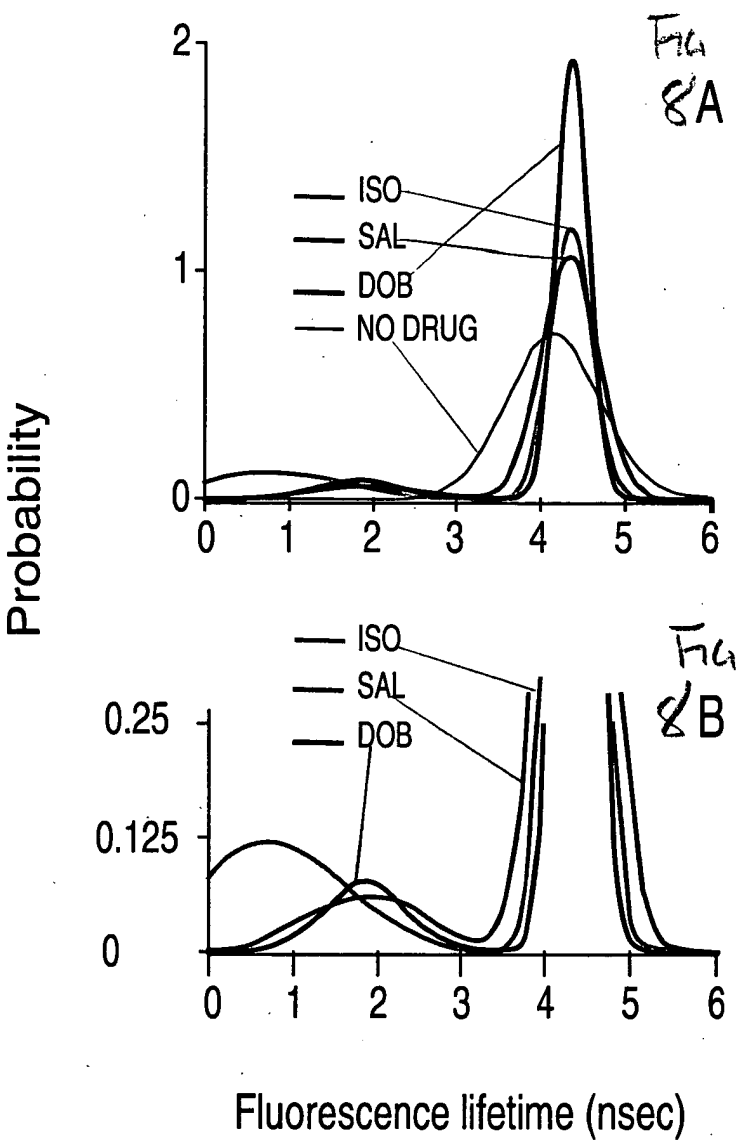


Fig. 9A

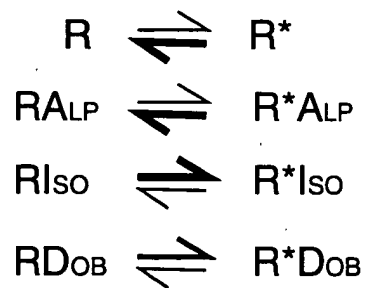


Fig. 9B

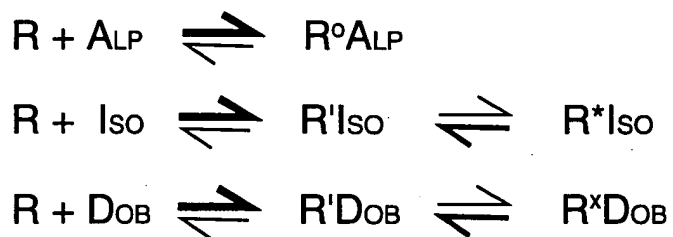


Fig. 10A

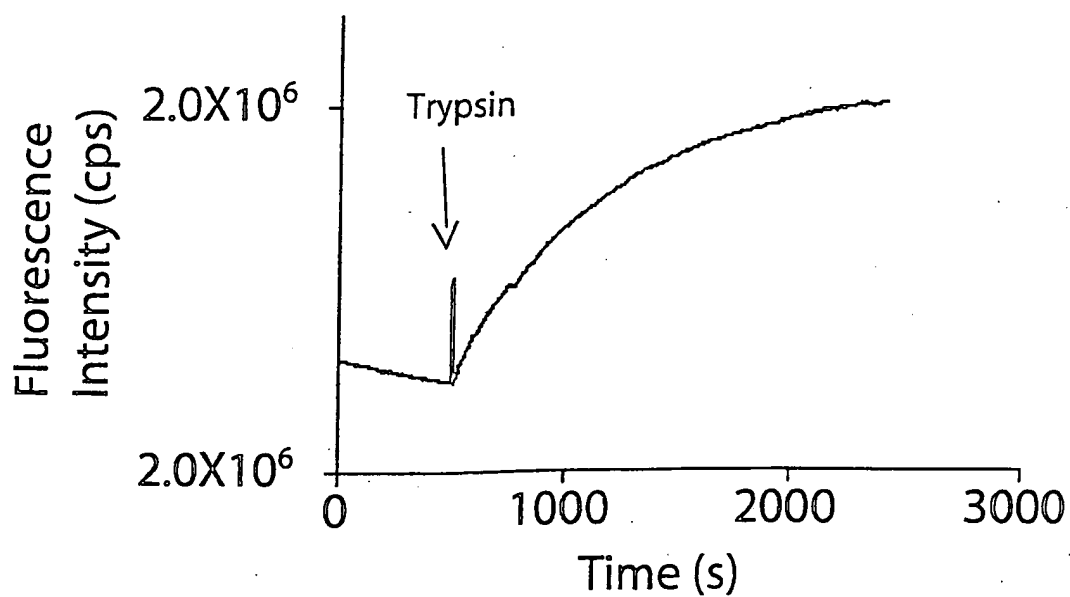


Fig. 10B

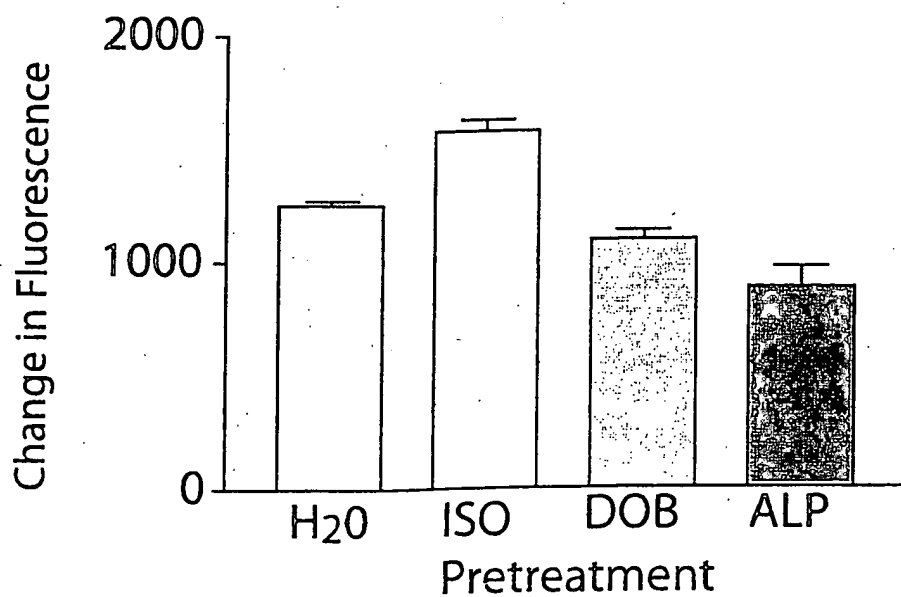


Fig. 11

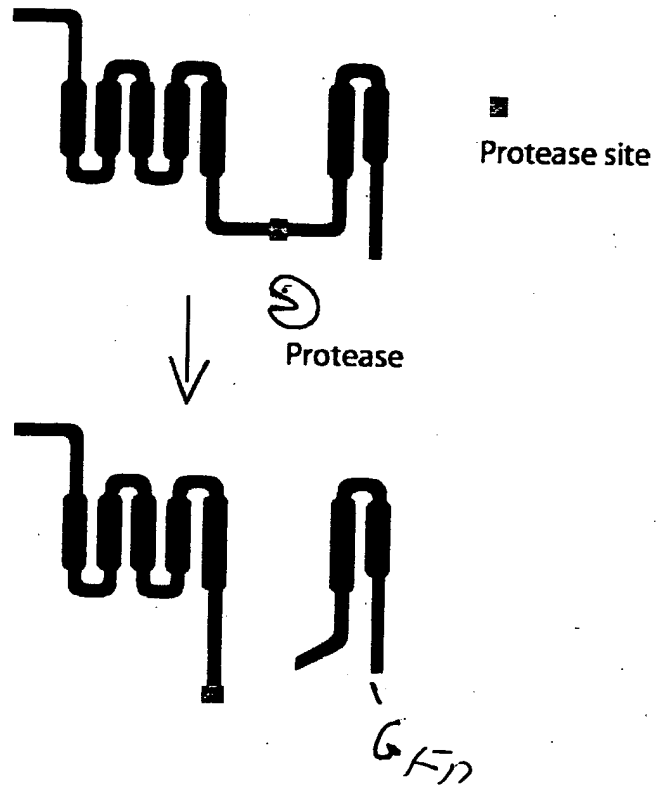


Fig. 12

Modifications to the β_2 adrenergic receptor to add TEV protease sites

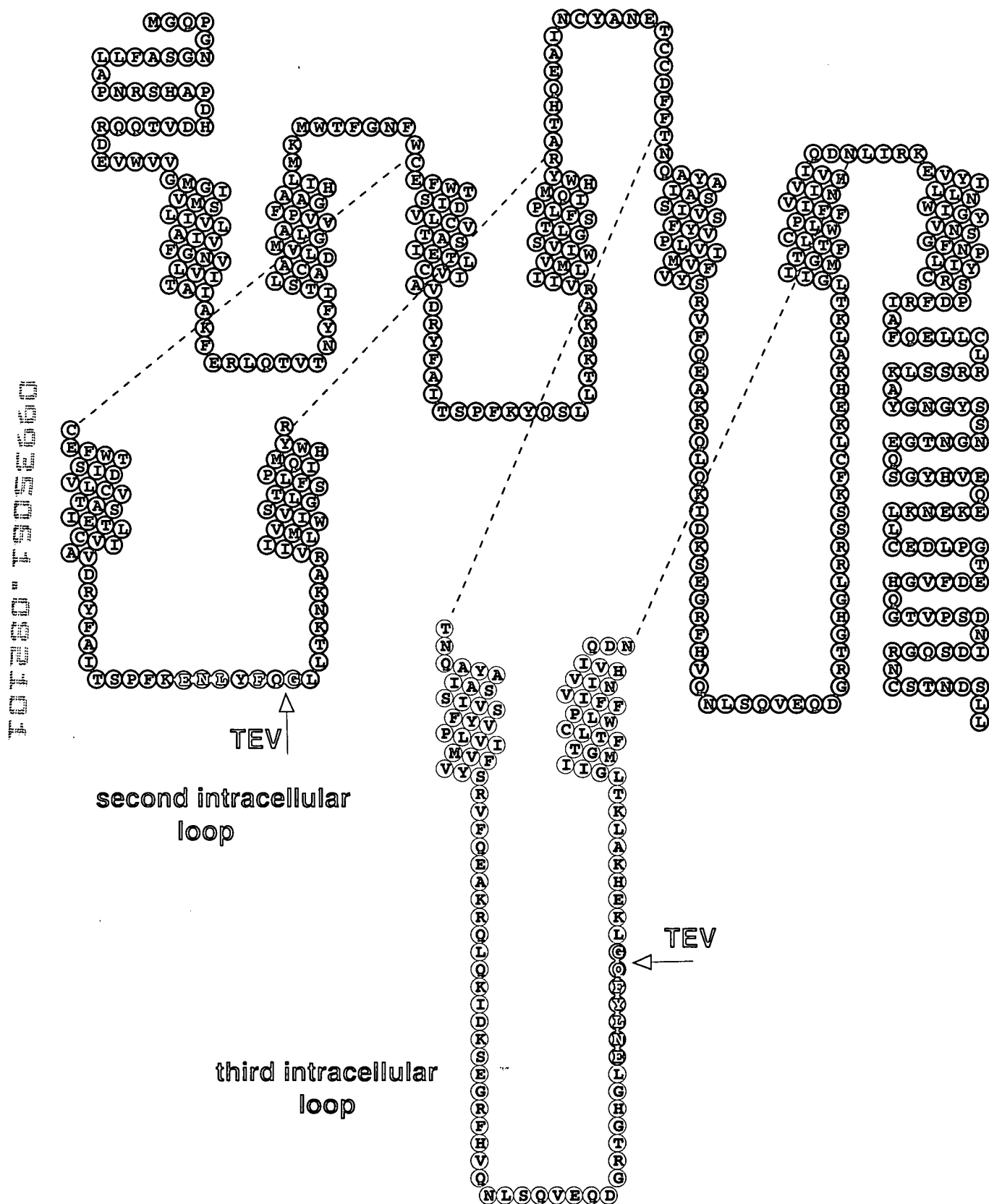


FIG. 13

β_2 Adrenergic Receptor DNA and Protein sequence

ATG GGG CAA CCC GGG AAC GGC AGC GCC TTC TTG CTG GCA CCC AAT AGA AGC CAT GCG CCG GAC
M G Q P G N G S A F L L A P N R S H A P D
CAC GAC GTC ACG CAG CAA AGG GAC GAG GTG TGG GTG GTG GGC ATG GGC ATC GTC ATG TCT CTC
H D V T Q Q R D E V W V V G M G I V M S L
ATC GTC CTG GCC ATC GTG TTT GGC AAT GTG CTG ATC ACA GCC ATT GCC AAG TTC GAG CGT
I V L A I V F G N V L V I T A I A K F E R
CTG CAG ACG GTC ACC AAC TAC TTC ATC ACT TCA CTG GCC TGT GCT GAT CTG GTC ATG GGC CTG
L Q T V T N Y F I T S L A C A D L V M G L
GCA GTG GTG CCC TTT GGG GCC GCC CAT ATT CTT ATG AAA ATG TGG ACT TTT GGC AAC TTC TGG
A V V P F G A A H I L M K M W T F G N F W
TGC GAG TTT TGG ACT TCC ATT GAT GTG CTG TGC GTC ACG GCT AGC ATT GAG ACC CTG TGC GTG
C E F W T S I D V L C V T A S I E T L C V
ATC GCA GTG GAT CGC TAC TTT GCC ATT ACT TCA CCT TTC AAG TAC CAG AGC CTG CTG ACC AAG
I A V D R Y F A I T S P F K Y Q S L L T K
AAT AAG GCC CGG GTG ATC ATT CTG ATG GTG TGG ATT GTG TCA GGC CTT ACC TCC TTC TTG CCC
N K A R V I I L M V W I V S G L T S F L P
ATT CAG ATG CAC TGG TAC CGG GCC ACC CAC CAG GAA GCC ATC AAC TGC TAT GCC AAT GAG ACC
I Q M H W Y R A T H Q E A I N C Y A N E T
TGC TGT GAC TTC TTC ACG AAC CAA GCC TAT GCC ATT GCC TCT TCC ATC GTG TCC TTC TAC GTT
C C D F F T N Q A Y A I A S S I V S F Y V
CCC CTG GTG ATC ATG GTC TTC GTC TAC TCC AGG GTC TTT CAG GAG GCC AAA AGG CAG CTC CAG
P L V I M V F V Y S R V F Q E A K R Q L Q
AAG ATT GAC AAA TCT GAG GGC CGC TTC CAT GTC CAG AAC CTT AGC CAG GTG GAG CAG GAT GGG
K I D K S E G R F H V Q N L S Q V E Q D G
CGG ACG GGG CAT GGA CTC CGC AGA TCT TCC AAG TTC TGC TTG AAG GAG CAC AAA GCC CTC AAG
R T G H G L R R S S K F C L K E H K A L K
ACG TTA GGC ATC ATC ATG GGC ACT TTC ACC CTC TGC TGG CTG CCC TTC TTC ATC GTT AAC ATT
T L G I I M G T F T L C W L P F F I V N I
GTG CAT GTG ATC CAG GAT AAC CTC ATC CGT AAG GAA GTT TAC ATC CTC CTA AAT TGG ATA GGC
V H V I Q D N L I R K E V Y I L L N W I G
TAT GTC AAT TCT GGT TTC AAT CCC CTT ATC TAC TGC CGG AGC CCA GAT TTC AGG ATT GCC TTC
Y V N S G F N P L I Y C R S P D F R I A F
CAG GAG CTC CTG TGC CTG CGC AGG TCT TCT TTG AAG GCC TAT GGG AAT GGC TAC TCC AGC AAC
Q E L L C L R R S S L K A Y G N G Y S S N
GGC AAC ACA GGG GAG CAG AGT GGA TAT CAC GTG GAA CAG GAG AAA GAA AAT AAA CTG CTG TGT
G N T G E Q S G Y H V E Q E K E N K L L C
GAA GAC CTC CCA GGC ACG GAA GAC TTT GTG GGC CAT CAA GGT ACT GTG CCT AGC GAT AAC ATT
E D L P G T E D F V G H Q G T V P S D N I
GAT TCA CAA GGG AGG AAT TGT AGT ACA AAT GAC TCA CTG CTG
D S Q G R N C S T N D S L L

09935061.083404

Fig. 14

 β_2 Adrenergic Receptor with TEV site in 2nd intracellular loop

ATG GGG CAA CCC GGG AAC GGC AGC GCC TTC TTG CTG GCA CCC AAT AGA AGC CAT GCG CCG GAC
M G Q P G N G S A F L L A P N R S H A P D
CAC GAC GTC ACG CAG CAA AGG GAC GAG GTG TGG GTG GTG GGC ATG GGC ATC GTC ATG TCT CTC
H D V T Q Q R D E V W V V G M G I V M S L
ATC GTC CTG GCC ATC GTG TTT GGC AAT GTG CTG ATC ACA GCC ATT GCC AAG TTC GAG CGT
I V L A I V F G N V L V I T A I A K F E R
CTG CAG ACG GTC ACC AAC TAC TTC ATC ACT TCA CTG GCC TGT GCT GAT CTG GTC ATG GGC CTG
L Q T V T N Y F I T S L A C A D L V M G L
GCA GTG GTG CCC TTT GGG GCC GCC CAT ATT CTT ATG AAA ATG TGG ACT TTT GGC AAC TTC TGG
A V V P F G A A H I L M K M W T F G N F W
TGC GAG TTT TGG ACT TCC ATT GAT GTG CTG TGC GTC ACG GCT AGC ATT GAG ACC CTG TGC GTG
C E F W T S I D V L C V T A S I E T L C V
ATC GCA GTG GAT CGC TAC TTT GCC ATT ACT TCA CCT TTC AAG TAC CAG AGC CTG CTG ACC AAG
I A V D R Y F A I T S P F K Y Q S L L T K
AAT AAG GCC CGG GTG ATC ATT CTG ATG GTG TGG ATT GTG TCA GGC CTT ACC TCC TTC CTG CCC
N K A R V I I L M V W I V S G L T S F L P
ATT CAG ATG CAC TGG TAC CGG GCC ACC CAC CAG GAA GCC ATC AAC TGC TAT GCC AAT GAG ACC
I Q M H W Y R A T H Q E A I N C Y A N E T
TGC TGT GAC TTC TTC ACG AAC CAA GCC TAT GCC ATT GCC TCT TCC ATC GTG TCC TTC TAC GTT
C C D F F T N Q A Y A I A S S I V S F Y V
CCC CTG GTG ATC ATG GTC TTC GTC TAC TCC AGG GTC TTT CAG GAG GCC AAA AGG CAG CTC CAG
P L V I M V F V Y S R V F Q E A K R Q L Q
AAG ATT GAC AAA TCT GAG GGC CGC TTC CAT GTC CAG AAC CTT AGC CAG GTG GAG CAG GAT GGG
K I D K S E G R F H V Q N L S Q V E Q D G
CGG ACG GGG CAT GGA CTC GAA AAC CTC TAC TTC CAG GGG TTG AAG GAG CAC AAA GCC CTC AAG
R T G H G L E N L Y F Q G L K E H K A L K
ACG TTA GGC ATC ATC ATG GGC ACT TTC ACC CTC TGC TGG CTG CCC TTC TTC ATC GTT AAC ATT
T L G I I M G T F T L C W L P F F I V N I
GTG CAT GTG ATC CAG GAT AAC CTC ATC CGT AAG GAA GTT TAC ATC CTC CTA AAT TGG ATA GGC
V H V I Q D N L I R K E V Y I L L N W I G
TAT GTC AAT TCT GGT TTC AAT CCC CTT ATC TAC TGC CGG AGC CCA GAT TTC AGG ATT GCC TTC
Y V N S G F N P L I Y C R S P D F R I A F
CAG GAG CTC CTG TGC CTG CGC AGG TCT TCT TTG AAG GCC TAT GGG AAT GGC TAC TCC AGC AAC
Q E L L C L R R S S L K A Y G N G Y S S N
GGC AAC ACA GGG GAG CAG AGT GGA TAT CAC GTG GAA CAG GAG AAA GAA AAT AAA CTG CTG TGT
G N T G E Q S G Y H V E Q E K E N K L L C
GAA GAC CTC CCA GGC ACG GAA GAC TTT GTG GGC CAT CAA GGT ACT GTG CCT AGC GAT AAC ATT
E D L P G T E D F V G H Q G T V P S D N I
GAT TCA CAA GGG AGG AAT TGT AGT ACA AAT GAC TCA CTG CTG
D S Q G R N C S T N D S L L

T01250" T505250

β_2 Adrenergic Receptor with TEV site in 3rd intracellular loop

ATG GGG CAA CCC GGG AAC GGC AGC GCC TTC TTG CTG GCA CCC AAT AGA AGC CAT GCG CCG GAC
 M G Q P G N G S A F L L A P N R S H A P D
 CAC GAC GTC ACG CAG CAA AGG GAC GAG GTG TGG GTG GGC ATG GGC ATC GTC ATG TCT CTC
 H D V T Q Q R D E V W V V G M G I V M S L
 ATC GTC CTG GCC ATC GTG TTT GGC AAT GTG CTG GTC ATC ACA GCC ATT GCC AAG TTC GAG CGT
 I V L A I V F G N V L V I T A I A K F E R
 CTG CAG ACG GTC ACC AAC TAC TTC ATC ACT TCA CTG GCC TGT GCT GAT CTG GTC ATG GGC CTG
 L Q T V T N Y F I T S L A C A D L V M G L
 GCA GTG GTG CCC TTT GGG GCC GCC CAT ATT CTT ATG AAA ATG TGG ACT TTT GGC AAC TTC TGG
 A V V P P F G A A H I L M K M W T F G N F W
 TGC GAG TTT TGG ACT TCC ATT GAT GTG CTG TGC GTC ACG GCT AGC ATT GAG ACC CTG TGC GTG
 C E F W T S I D V L C V T A S I E T L C V
 ATC GCA GTG GAT CGC TAC TTT GCC ATT ACT TCA CCT TTC AAG GAG AAT CTC TAC TTC CAG GGC
 I A V D R Y F A I T S P F K E N L Y F Q G
 CTG CTG ACC AAG AAT AAG GCC CGG GTG ATC ATT CTG ATG GTG TGG ATT GTG TCA GGC CTT ACC
 L L T K N K A R V I I L M V W I V S G L T
 TCC TTC TTG CCG ATT CAG ATG CAG TGG TAC CGG ACC CAG CAG GAA GCC ATC AAC TGC TAT
 S F L P I Q M H W Y R A T H Q E A I N C Y
 GCC AAT GAG ACC TGC TGT GAC TTC TTC ACG AAC CAA GCC TAT GCC ATT GCC TCT TCC ATC GTG
 A N E T C C D F T N Q A Y A I A S S I V
 TCC TTC TAC GTT CCC CTG GTG ATC ATG GTC TTC GTC TAC TCC AGG GTC TTT CAG GAG GCC AAA
 S F Y V P L V I M V F V Y S R V F Q E A K
 AGG CAG CTC CAG AAG ATT GAC AAA TCT GAG GGC CGC TTC CAT GTC CAG AAC CTT AGC CAG GTG
 R Q L Q K I D K S E G R F H V Q N L S Q V
 GAG CAG GAT GGG CGG ACG GGG CAT GGA CTC CGC AGA TCT TCC AAG TTC TGC TTG AAG GAG CAC
 E Q D G R T G H G L R R S S K F C L K E H
 AAA GCC CTC AAG ACG TTA GGC ATC ATC ATG GGC ACT TTC ACC CTC TGC TGG CTG CCC TTC TTC
 K A L K T L G I I M G T F T L C W L P F F
 ATC GTT AAC ATT GTG CAT GTG ATC CAG GAT AAC CTC ATC CGT AAG GAA GTT TAC ATC CTC CTA
 I V N I V H V I Q D N L I R K E V Y I L L
 AAT TGG ATA GGC TAT GTC AAT TCT GGT TTC AAT CCC CTT ATC TAC TGC CGG AGC CCA GAT TTC
 N W I G Y V N S G F N P L I Y C R S P D F
 AGG ATT GCC TTC CAG GAG CTC CTG TGC CTG CGC AGG TCT TCT TTG AAG GCC TAT GGG AAT GGC
 R I A F Q E L L C L R R S S L K A Y G N G
 TAC TCC AGC AAC GGC AAC ACA GGG GAG CAG AGT GGA TAT CAC GTG GAA CAG GAG AAA GAA AAT
 Y S S N G N T G E Q S G Y H V E Q E K E N
 AAA CTG CTG TGT GAA GAC CTC CCA GGC ACG GAA GAC TTT GTG GGC CAT CAA GGT ACT GTG CCT
 K L L C E D L P G T E D F V G H Q G T V P
 AGC GAT AAC ATT GAT TCA CAA GGG AGG AAT TGT AGT ACA AAT GAC TCA CTG CTG
 S D N I D S Q G R N C S T N D S L L

09935061.032101
 107250.1905000

SECRET

MDSS
NSANTEPA
TDALAYS
PSPAPSC
SWVNLSH
PDSLNGD
GPNRTDL
PCLSDRG
TGSPS



FIG. 17

μ Opioid receptor DNA and Protein sequence

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ATG GAC AGC AGC GCT GCC CCC ACG AAC GCC AGC AAT TGC ACT GAT GCC TTG GCG TAC TCA AGT
M D S S A A P T N A S N C T D A L A Y S S
TGC TCC CCA GCA CCC AGC CCC GGT TCC TGG GTC AAC TTG TCC CAC TTA GAT GGC GAC CTG TCC
C S P A P S P G S W V N L S H L D G D L S
GAC CCA TGC GGT CCG AAC CGC ACC GAC CTG GGC GGG AGA GAC AGC CTG TGC CCT CCA ACC GGC
D P C G P N R T D L G G R D S L C P P T G
AGT CCC TCC ATG ATC ACG GCC ATC ACG ATC ATG GCC CTC TAC TCC ATC GTG TGC GTG GTG GGG
S P S M I T A I T I M A L Y S I V C V V G
CTC TTC GGA AAC TTC CTG GTC ATG TAT GTG ATT GTC AGA TAC ACC AAG ATG AAG ACT GCC ACC
L F G N F L V M Y V I V R Y T K M K T A T
AAC ATC TAC ATT TTC AAC CTT GCT CTG GCA GAT GCC TTA GCC ACC AGT ACC CTG CCC TTC CAG
N I Y I F N L A L A T S T L P F Q
AGT GTG AAT TAC CTA ATG GGA ACA TGG CCA TTT GGA ACC ATC CTT TGC AAG ATA GTG ATC TCC
S V N Y L M G T W P F G T I L C K I V I S
ATA GAT TAC TAT AAC ATG TTC ACC AGC ATA TTC ACC CTC TGC ACC ATG AGT GTT GAT CGA TAC
I D Y Y N M F T S I F T L C T M S V D R Y
ATT GCA GTC TGC CAC CCT GTC AAG GCC TTA GAT TTC CGT ACT CCC CGA AAT GCC AAA ATT ATC
I A V C H P V K A L D F R T P R N A K I I
AAT GTC TGC AAC TGG ATC CTC TCT TCA GCC ATT GGT CTT CCT GTA ATG TTC ATA GCT ACA ACA
N V C N W I L S S A I G L P V M F I A T T
AAA TAC AGG CAA GGT TCC ATA GAT TGT ACA CTA ACA TTC TCT CAT CCA ACC TGG TAC TGG GAA
K Y R Q G S I D C T L T F S H P T W Y W E
AAC CTG CTG AAG ATC TGT GTT TTC ATC TTC GCC TTC ATT ATG CCA GTG CTC ATC ATT ACC GTG
N L L K I C V F I F A F I M P V L I I T V
TGC TAT GGA CTG ATG ATC TTG CGC CTC AAG AGT GTC CGC ATG CTC TCT GGC TCC AAA GAA AAG
C Y G L M I L R L K S V R M L S G S K E K
GAC AGG AAT CTT CGA AGG ATC ACC AGG ATG GTG CTG GTG GTG GCT GTG TTC ATC GTC TGC
D R N L R R I T R M V L V V V A V F I V C
TGG ACT CCC ATT CAC ATT TAC GTC ATC ATT AAA GCC TTG GTT ACA ATC CCA GAA ACT ACG TTC
W T P I H I Y V I I K A L V T I P E T T F
CAG ACT GTT TCT TGG CAC TTC TGC ATT GCT CTA GGT TAC ACA AAC AGC TGC CTC AAC CCA GTC
Q T V S W H F C I A L G Y T N S C L N P V
CTT TAT GCA TTT CTG GAT GAA AAC TTC AAA CGA TGC TTC AGA GAG TTC TGT ATC CCA ACC TCT
L Y A F L D E N F K R C F R E F C I P T S
TCC AAC ATT GAG CAA CAA AAC TCC ACT CGA ATT CGT CAG AAC ACT AGA GAC CAC CCC TCC ACG
S N I E Q Q N S T R I R Q N T R D H P S T
GCC AAT ACA GTG GAT AGA ACT AAT CAT CAG GTA CGC AGT CTC
A N T V D R T N H Q V R S L

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0033061.05104

F: G. 18

μ Opioid receptor with TEV site in 2nd intracellular loop

ATG GAC AGC AGC GCT GCC CCC ACG AAC GCC AGC AAT TGC ACT GAT GCC TTG GCG TAC TCA AGT
M D S S A A P T N A S N C T D A L A Y S S
TGC TCC CCA GCA CCC AGC CCC GGT TCC TGG GTC AAC TTG TCC CAC TTA GAT GGC GAC CTG TCC
C S P A P S P G S W V N L S H L D G D L S
GAC CCA TGC GGT CCG AAC CGC ACC GAC CTG GGC GGG AGA GAC AGC CTG TGC CCT CCA ACC GGC
D P C G P N R T D L G G R D S L C P P T G
AGT ACC TCC ATG ATC ACG GCC ATC ACG ATC GGC CTC TAC TCC ATC GTG TGC GTG GTG GGG
S P S M I T A I T I M A L Y S I V C V V G
CTC TTC GGA AAC TTC CTG GTC ATG TAT GTG ATT GTC AGA TAC ACC AAG ATG AAG ACT GCC ACC
L F G N F L V M Y V I V R Y T K M K T A T
AAC ATC TAC ATT TTC AAC CTT GCT CTG GCA GAT GCC TTA GCC ACC AGT ACC CTG CCC TTC CAG
N I Y I F N L A L A D A L A T S T L P F Q
AGT GTG AAT TAC CTA ATG GGA ACA TGG CCA TTT GGA ACC ATC CTT TGC AAG ATA GTG ATC TCC
S V N Y L M G T W P F G T I L C K I V I S
ATA GAT TAC TAT AAC ATG TTC ACC AGC ATA TTC ACC CTC TGC ACC ATG AGT GTT GAT CGA TAC
I D Y Y N M F T S I F T L C T M S V D R Y
ATT GCA GTC TGC CAC CCT GTC AAG GAA AAC CTC TAC TTC CAG GGG CGA AAT GCC AAA ATT ATC
I A V C H P V K E N L Y F Q G R N A K I I
AAT GTC TGC AAC TGG ATC CTC TCT TCA GCC ATT GGT CTT CCT GTA ATG TTC ATA GCT ACA ACA
N V C N W I L S S A I G L P V M F I A T T
AAA TAC AGG CAA GGT TCC ATA GAT TGT ACA CTA ACA TTC TCT CAT CCA ACC TGG TAC TGG GAA
K Y R Q G S I D C T L T F S H P T W Y W E
AAC CTG CTG AAG ATC TGT GTT TTC ATC TTC GCC TTC ATT ATG CCA GTG CTC ATC ATT ACC GTG
N L L K I C V F I F A F I M P V L I I T V
TGC TAT GGA CTG ATG ATC TTG CGC CTC AAG AGT GTC CGC ATG CTC TCT GGC TCC AAA GAA AAG
C Y G L M I L R L K S V R M L S G S K E K
GAC AGG AAT CTT CGA AGG ATC ACC AGG ATG GTG CTG GTG GTG GTG GCT GTG TTC ATC GTC TGC
D R N L R R I T R M V L V V V A V F I V C
TGG ACT CCC ATT CAC ATT TAC GTC ATC ATT AAA GCC TTG GTT ACA ATC CCA GAA ACT ACG TTC
W T P I H I Y V I I K A L V T I P E T T F
CAG ACT GTT TCT TGG CAC TTC TGC ATT GCT CTA GGT TAC ACA AAC AGC TGC CTC AAC CCA GTC
Q T V S W H F C I A L G Y T N S C L N P V
CTT TAT GCA TTT CTG GAT GAA AAC TTC AAA CGA TGC TTC AGA GAG TTC TGT ATC CCA ACC TCT
L Y A F L D E N F K R C F R E F C I P T S
TCC AAC ATT GAG CAA CAA AAC TCC ACT CGA ATT CGT CAG AAC ACT AGA GAC CAC CCC TCC ACG
S N I E Q Q N S T R I R Q N T R D H P S T
GCC AAT ACA GTG GAT AGA ACT AAT CAT CAG GTA CGC AGT CTC
A N T V D R T N H Q V R S L

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Fig. 19

μ Opioid receptor with TEV site in 3rd intracellular loop

ATG GAC AGC AGC GCT GCC CCC ACG AAC GCC AGC AAT TGC ACT GAT GCC TTG GCG TAC TCA AGT
M D S S A A P T N A S N C T D A L A Y S S
TGC TCC CCA GCA CCC AGC CCC GGT TCC TGG GTC AAC TTG TCC CAC TTA GAT GGC GAC CTG TCC
C S P A P S P G S W V N L S H L D G D L S
GAC CCA TGC GGT CCG AAC CGC ACC GAC CTG GGC GGG AGA GAC AGC CTG TGC CCT CCA ACC GGC
D P C G P N R T D L G G R D S L C P P T G
AGT CCC TCC ATG ATC ACG GCC ATC ACG ATC ATG GCC CTC TAC TCC ATC GTG TGC GTG GTG GGG
S P S M I T A I T I M A L Y S I V C V V G
CTC TTC GGA AAC TTC CTG GTC ATG TAT GTG ATT GTC AGA TAC ACC AAG ATG AAG ACT GCC ACC
L F G N F L V M Y V I V R Y T K M K T A T
AAC ATC TAC ATT TTC AAC CTT GCT CTG GCA GAT GCC TTA GCC ACC AGT ACC CTG CCC TTC CAG
N I Y I F N L A L A D A L A T S T L P F Q
AGT GTG AAT TAC CTA ATG GGA ACA TGG CCA TTT GGA ACC ATC CTT TGC AAG ATA GTG ATC TCC
S V N Y L M G T W P F G T I L C K I V I S
ATA GAT TAC TAT AAC ATG TTC ACC AGC ATA TTC ACC CTC TGC ACC ATG AGT GTT GAT CGA TAC
I D Y Y N M F T S I F T L C T M S V D R Y
ATT GCA GTC TGC CAC CCT GTC AAG GCC TTA GAT TTC CGT ACT CCC CGA AAT GCC AAA ATT ATC
I A V C H P V K A L D F R T P R N A K I I
AAT GTC TGC AAC TGG ATC CTC TCT TCA GCC ATT GGT CTT CCT GTA ATG TTC ATA GCT ACA ACA
N V C N W I L S S A I G L P V M F I A T T
AAA TAC AGG CAA GGT TCC ATA GAT TGT ACA CTA ACA TTC TCT CAT CCA ACC TGG TAC TGG GAA
K Y R Q G S I D C T L T F S H P T W Y W E
AAC CTG CTG AAG ATC TGT GTT TTC ATC TTC GCC TTC ATT ATG CCA GTG CTC ATC ATT ACC GTG
N L L K I C V F I F A F I M P V L I I T V
TGC TAT GGA CTG ATG ATC TTG CGC CTC AAG AGT GTC CGC ATG CTC TCT GGC TCC AAA GAA AAG
C Y G L M I L R L K S V R M L S G S K E K
GAC GAA AAC CTC TAC TTC CAG GGG AGG AAT CTT CGA AGG ATC ACC AGG ATG GTG CTG GTG GTG
D E N L Y F Q G R N L R R I T R M V L V V
GTG GCT GTG TTC ATC GTC TGC TGG ACT CCC ATT CAC ATT TAC GTC ATC ATT AAA GCC TTG GTT
V A V F I V C W T P I H I Y V I I K A L V
ACA ATC CCA GAA ACT ACG TTC CAG ACT GTT TCT TGG CAC TTC TGC ATT GCT CTA GGT TAC ACA
T I P E T T F Q T V S W H F C I A L G Y T
AAC AGC TGC CTC AAC CCA GTC CTT TAT GCA TTT CTG GAT GAA AAC TTC AAA CGA TGC TTC AGA
N S C L N P V L Y A F L D E N F K R C F R
GAG TTC TGT ATC CCA ACC TCT TCC AAC ATT GAG CAA AAC TCC ACT CGA ATT CGT CAG AAC
E F C I P T S S N I E Q Q N S T R I R Q N
ACT AGA GAC CAC CCC TCC ACG GCC AAT ACA GTG GAT AGA ACT AAT CAT CAG GTA CGC AGT CTC
T R D H P S T A N T V D R T N H Q V R S L

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